

ACC NR: AP6021216

es of graphs. Generally, the deviations do not exceed 20%; the effect of this on the extension of the results to more general cases, however, can be considerable. The disagreement with the theory is ascribed to the character of the variation of the physical properties across the flow at higher temperatures. The empirical relationship describing the experimental results is obtained in terms of liquid density and heat capacity at wall and liquid temperatures to replace the theoretical formula cited by V. N. Popov in his dissertation (MEI, 1964). Orig. art. has: 8 figures, 3 formulas, 1 table.

SUB CODE: 20/

SUBM DATE: 15Jun65/

ORIG REF: 012/

OTH REF: 002

Cord 2/2

KOZIK, Stefan Mikhaylovich; PROTOPOPOV, V.S., red.; SHTANNIKOVA,
L.I., red.

[Finding the period, by some disconnected observations, of
a periodic phenomenon] Otyskanie perioda po neskol'kim raz-
roznennym nabliudeniim periodicheskogo iavlenia. Lenin-
grad, Gidrometeoizdat, 1964. 53 p. (MIRA 17:9)

KOPANEV, Ivan Dmitriyevich; SHAPAYEV, V.M., otv.red.; PROTOPOPOV, V.S.,
red.; SERGEYEV, A.N., tekhn.red.

[The Antarctic snow cover] Sneshnyi pokrov Antarktidy. Lenin-
grad, Gidrometeor.isd-vo, 1960. 142 p. (MIRA 13:8)
(Antarctic regions--Snow)

KUZ'MIN, Prckofiy Pavlovich; SPENGLER, O.A., otv.red.; PROTOPOPOV,
V.S., red.; VLADIMIROV, O.G., tekhn.red.

[Formation of the snow cover and methods of determining the
snow supply] Formirovanie snezhnogo pokrova i metody oprede-
leniia snegozapasov. Leningrad, Gidrometeor.izd-vo, 1960.
169 p. (MIRA 13:7)

(Snow surveys)

ZAYTSEV, Vasilii Aleksandrovich; LEDOKHOVICH, Aleksey Aleksandrovich;
FATEYEV, M.P., otv.red.; PROTOPOPOV, V.S., red.; VOLKOV, M.V.,
tekhn.red.

[Instruments and the study of clouds from an airplane] Pribury
i metodika issledovaniia oblakov s samoleta. Leningrad, Gidro-
meteor.isd-vo, 1960. 175 p. (MIRA 13:7)
(Aeronautics in meteorology) (Meteorological instruments)
(Clouds)

PROTOPOPOV, V.V.

Effect of mechanized logging operations on the natural regeneration of forests. Trudy Inst. lesa 40:53-94 '59.

(MIRA 12:10)

(Reforestation) (Lumbering)

PROTOPOLNA, I.I.

Adventitious plants of the forest-steppe and steppe of the Ukraine. Ukr. bot. zhur. 22 no.3:38-43 '65. (MIRA 18:7)

1. Institut botaniki AN UkrSSR, otdel vysshikh rasteniy.

PROTOPOPOV, V.V.

Microclimatic conditions in growths of the great willow herb
(*Chamaenerium angustifolium* L.Scop.). Bot.zhur. 44 no.8:
1143-1148 Ag '59. (MIRA 13:2)

1. Institut lesa AN SSSR, selo Uspenskoye Moskovskoy oblasti.
(*Epilobium*) (Forest ecology)

PROTOPOFOV, V.V.; POZDNYAKOV, L.K., otv. red.; MARUSICH, V.Kh.,
red.

[Bioclimate of the dark green mountain forests of southern
Siberia] Bioklimat temnokhvoinykh gornyykh lesov Iuzhnoi
Sibiri. Moskva, Nauka, 1965. 94 p. (MIRA 18:2)

YAL'YASHKEVICH, Samuil Abramovich; PROTOPOPOV, Yu.A., red.; VORONIN,
K.P., tekhn.red.

[Reference book on television receivers] Spravochnik po tele-
vizionnym priemnikom. Izd.2., ispr. i dop. Moskva, Gos.energ.
izd-vo, 1960. 223 p. (MIRA 13:9)
(Television--Handbooks, manuals, etc.)

KHOMENKO, Z.S., kand. tekhn. nauk; PROTOPOPOV, Yu.V., inzh.; BYKHAREVA, B.V.,
inzh.

Producing fiberboards resistant to micro-organisms. Sbor. trud.
VNIINSM no.7:59-64 '63. (MIRA 17:11)

PROTOPOPOVA, A. [Pratapopava, A.]

No, it isn't "your own business." Rab. 1 sial. 39 no.5:20-21
My '63. (MIRA 16:6)

(Children—Management)

ROSSIKHIN, V.S.; PROTOPOPOVA, A.K.; MOKHOVA, N.V.

"Molecular physics" by I.V. Radchenko. Reviewed by V.S.
Rossikhin, A.K. Protopopova, N.V. Mokhova. Inzh.-fiz. zhur.
4 no.9:134-135 S '61. (MIRA 14:8)
(Molecular theory) (Radchenko, I.V.)

PROTOPOPOVA, A.

The most important thing. Prof.-tekhn. obr. 11 no.3:23-25 '54.
(Technical education) (Socialist competition) (MLRA 7:8)

L 8134-66

ACC NR: AP5025057

SOURCE CODE: UR/0286/65/000/016/0098/0099

AUTHORS: Protopopov, N. G.; Sternzat, M. S.; Yefremychev, V. I.; Protopopova, B. I.

ORG: none

TITLE: Remote anemorhumbograph. Class 42, No. 173993

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 98-99

TOPIC TAGS: wind direction instrument, wind velocity, wind meter

ABSTRACT: This Author Certificate presents a remote anemorhumbograph containing a wind sensor in the form of a four-bladed propeller fastened to the front part of a drop-shaped hull with an empennage as a wind vane, a tachometer-generator, and two selsyn-detectors (see Fig. 1). To record the average and instantaneous wind velocity on a common scale of the recorder tape, the wind sensor shaft is coupled to the tachometer-generator using bevel gears and to the selsyn-detector through a reductor. The number of revolutions of the wind sensor during a given time interval is transformed into the angular displacement of the selsyn rotor. To record the instantaneous wind velocity as the total velocity profile or as the excess over the average wind velocity, the average wind velocity recorder carriage is provided with a switching pin which lifts the pen with its passage through the average velocity line or limits

Card 1/3

UDC: 621-519:551.508.5

L 8134-66

ACC NR: AP5025057

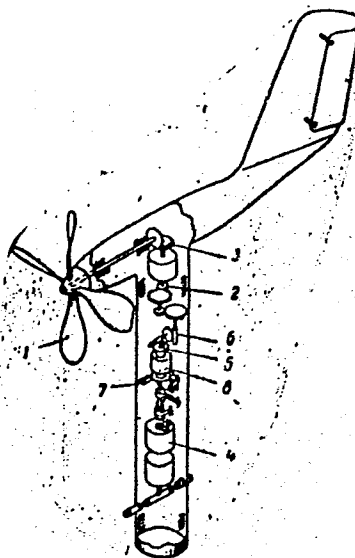


Fig. 1. 1- wind-sensor;
2- tachometer-generator;
3- bevel gears;
4- selsyn-detector;
5- reductor axle;
6- recorder; 7- catch;
8- differential

the pen motion up to this line. To protect the mechanism producing the average wind velocity from breakage with velocity values exceeding the upper measurement limit, the mechanism is provided with a limiting device which disconnects the selsyn-detector from the summing mechanism with a lever. The lever deflects a catch from

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L 8134-66

ACC NR: AP5025057

the differential ratchet wheel when the average wind velocity reaches the upper measurement limit. Orig. art. has: 1 diagram. 0

SUB CODE: ES/

SUBM DATE: 15Jan62

Card 3/3 *sw*

MELNISHKI, Liuben; BOROV, Ivan; KAZASOV, Dimo; ~~Protodanova, I.~~,
[translator]; KRAPACHEV, K., red. izd-va; ZHAROV, Yu.,
red.; IVANOV, I., tekhn. red.

[Bulgaria; a guidebook] Bolgariia; putevoditel'. Sofia,
Meditsina i fizkul'tura, 1963. 327 p. (MIRA 16:12)
(Bulgaria--Guidebooks)

POPOVA, G.M.; PROTOPOPOVA, L.M.

Type N_{po} surface waves in a rectangular wave guide with transversely magnetized ferrite and their use in devising irreducible constructions. Izv. vys. ucheb. zav.; fiz. 8 no.2:28-33 '65. (MIRA 18:7)

1. Sibirskiy fiziko-tekhnicheskii institut imeni Kuznetsova.

L 58316-63 EWT(1)/EEC-4/EED-2/EWA(h) Pa-4/Pac-4/Peb/Pi-4/Pj-4

ACCESSION NR: AP5011382

UR/0139/65/000/002/0028/0033

AUTHORS: Popova, G. M.; Protopopova, L. M.

TITLE: Type H₀₀ surface waves in a rectangular waveguide with transversely magnetized ferrite, and their use for the construction of non-reciprocal devices

SOURCE: IVUZ. Fizika, no. 2, 1965, 28-33

TOPIC TAGS: waveguide, ferrite, surface wave, non-reciprocal device, directional insulator

ABSTRACT: The authors derive equations for the propagation of H₀₀ modes in a rectangular waveguide in which a transversely magnetized ferrite plate is inserted in contact with one of the side walls. In view of the complexity of the analytic expressions, the solution for the equation for the propagation constant is obtained numerically. The calculations show that under certain conditions a waveguide with a ferrite can support besides the waveguides waves also surface waves.

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ACCESSION NR: AP5011382

the conditions for the propagation of which are calculated. The propagation of the surface waves was also investigated experimentally by measuring the attenuation of the forward and backward waves in the waveguide with ferrite and with absorbing coating, as well as by photographing the field distribution in the waveguide with the ferrite and with absorbing coating, as well as by photographing the field distribution in the waveguide with the ferrite without the absorbing coating for two propagation directions. The forward and backward losses in the waveguide were measured at 4,000 Mcs and for different ferrite plate thicknesses. The test results confirm that a surface wave can be propagated in a single direction under certain conditions so that such a waveguide-ferrite combination can be used for the construction of a non-reciprocal rectifier device. Original article has: 6 figures and 7 formulas.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskii institut imeni V. D. Kuznetsova (Siberian Physicotechnical Institute).

Card 2/3

L 58316-65

ACCESSION NR: AP5011382

SUBMITTED: 22Mar62

ENCL: 00

SUB CODE: EC

NR REF SOV: 000

OTHER: 008

AR
Card 3/3

PROTOPOPOVA, M.I.

Survey of French judicial and arbitration practices concerning
salvage and assistance at sea cases. Inform. sbor. TSNIIIMF
no.110 Mor. pravo 1 prak. no.23;23-31 '63. (MIRA 18:9)

PROTOPOPOVA, M.I.[translator]

Judicial practice in Great Britain. Inform.sbor.TSNIIMF no.34:73-74
'58. (MIRA 14:3)

(Great Britain—Maritime law) (Freight and freightage—Claims)

RYUMINA, L.A.[translator]; PROTOPOPOVA, M.I.[translator]

Judicial practice in the U.S.A. Inform.sbor.TSNIIMF no.34:77-81
'58. (MIRA 14:3)
(United States--Maritime law) (Freight and freightage--Claims)

PROTOPOPOVA, M.I.[translator]

The Japanese "Law on the international maritime transportation
of freight" enacted in 1958. Inform.sbor.TSNIIMF no.34:84-91
'58. (MIRA 14:3)
(Japan--Maritime law) (Freight and freightage)

PROTOPOPOVA, M.I.[translator]

Judicial practice in France. Inform.sbor.TSNIIMF no.34:74-77
'58. (MIRA 14:3)
(France--Maritime law) (Freight and freightage--Claims)

AL', G.E.; GORODNIY, S.B.; GREYMER, M.S.; PROTOPOPOVA, N.M.

Clinically cured adult tuberculosis patients; data from Leningrad dispensaries in 1962. Probl. tub. 41 no.10:27-32 '63. (MIRA 17:9)

1. Iz organizatsionno-metodicheskogo otdela (rukovoditel' - doktor med. nauk G.E. Al') i dispansernogo otdeleniya (Rukovoditel' - kand.med.nauk S.B.Gorodniy) Leningradskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - prof. A.D.Semenov).

BREUSENKO, D.P.; ORESHKIN, V.V.; SHUKHOV, N.S.; MALININ, P.V., otv.
red.; PROTOPOPOVA, N.V., red.; VALUYEVA, I.V., tekhn.red.

[Methodology problems of the history of economic thought]
Nekotorye voprosy metodologii istorii ekonomicheskoi mysli.
Moskva, Mosk. in-t inzhenerov geodezii, aerofotos"emki i
kartografii, 1963. 71 p. (MIRA 16:3)
(Economics)

KIRILENKO, P.; PROTOPOPOVA, O.

Seventieth anniversary of the Poltava Meteorological Station.
Meteor. i gidrol. no.2:60 F '56. (MLRA 9:6)
(Poltava--Meteorological observatories)

TOIKACHEVA, M.M.; KIRSANOVSKIY, O.M.; PROTOPOPOVA, T.A.; MISHINA, T.I.;
KOCHKINA, L.I.; MEDVETSKAYA, Z.A.

Consolidated standards for routine locomotive maintenance.
Zhel.dor.transp. 41 no.11:29-31 N '59. (MIRA 13:2)
(Locomotives--Maintenance and repair)

KOVALENKO, V.F., inzh.; PROTOPOPOVA, T.I., inzh.

Hydroblast cleaning of ingots from scale. [Nanch. trudy]
ENIKMASHa 11:103-111 '65. (MIRA 18:6)

PEREVOZCHIKOV, B.S.; SANNIKOV, S.S.; PASMANIK, A.I.; Irinimali
uchastiye: PROTOPOPOVA, T.I.; BOL'SHAKOV, Yu.A.; KOROLEV,
V.O.; TROSTYANITSER, G.N.; TROITSKIY, G.A.; DEVYATOV, I.I.

Adjustment of low-flash forging on a 4000-ton, NKMZ crankshaft
hot forging press. Kuz.-shtam. proizvod. 3 no.8:41-43 Ag '61.
(MIRA 14:8)

(Forging) (Power presses)

KLIMKO, V.T.; PROTOPOPOVA, T.V.; SKOLDINOV, A.P.

Synthesis and some transformations of β -substituted acroleins.
Dokl. AN SSSR 146 no.5:1084-1087 0 '62. (MIRA 15:10)

1. Nauchno-issledovatel'skiy institut farmakologii i khimioterapii
AN SSSR. Predstavleno akademikom A.N.Nesmeyanovym.
(Acrolein)

Protopopova, T. V.

/ Syntemycin analogs. A. I. Ivanov, A. P. Arsendatuk, M. I. Dorokhova, V. P. Klimke, V. A. Mikhailov, T. V. Protopopova, A. P. Sheldinov, and N. E. Smolkin. U.S. S.R. 102,626, Apr. 30, 1966. Salts of the corresponding α -aminoacetophenones are acylated in an org. solvent with acid halides of the corresponding org. acids in the presence of aq. NaOAc. The resulting α -acylaminoacetophenones are condensed with Cl_2O and the oxo group reduced by known means.

M. Horsh. //

*Inst. Pharmacology + Chemotherapy - Acad. Medical Sci
USSR*

PROTOPKOVA, T. V., SKOLDINOV, A. P.

*log 10.113, there was obtained an dila. with H₂O 80%
methylaldehyde dianil H₂O salt, m. 211-12°; with Na-
OH this gave the free dianil salt, 114-15°. If conc. H₂SO₄...*

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001343320020-3

gine, m. 125-02 II similarly gave 71% yield.
G. M. Kosolapoff

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APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001343320020-3"

PROTOPPOVA, T.V.

3.
464j
γ-β-Acyloxyacroleins. A. P. Skoldinov and T. V. Protopova. U.S.S.R. 100,576, July 26, 1957. An aq. soln. of Na malondialdehyde or a suspension of its anhyd. salt in an inert solvent is treated with a carboxylic acid chloride and the reaction product is sepd. by known means. M. Hosh

omf

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AUTHORS: Protopopova, T. V., and Skoldinov, A. P.

TITLE: 1,1,3,3-Tetraalkoxy Propanes (1,1,3,3-Tetraalkoksipropy)

PERIODICAL: Zhurnal Obshchey Khimii, 1957, Vol. 27, No. 1, pp. 57-62 (U.S.S.R.)

ABSTRACT: The properties of 1,1,3,3-tetraalkoxy propanes obtained during the reaction of vinyl ethers with orthoformic acid esters in the presence of a Friedel-Crafts type catalyst, are analyzed. This reaction is similar to the well-known reaction of vinyl ethers with acetals leading to the formation of alkoxy acetals or products of further addition of one or several vinyl ether molecules. The addition of the orthoformic acid ester to the vinyl ether results not only in the formation of 1,1,3,3-tetraalkoxy propane but the latter in turn can attach itself by its double bond, forming 1,1,3,5,5-pentaalkoxy pentane and products of further reaction of the latter with vinyl ether. The reaction was carried out with various molar ratios of the orthoformic acid ester and vinyl ether and the yield of the mono-additive in this case depends less upon the surplus ester used than in the case of addition of acetals. This is explained by the fact that the orthoester function during the reaction of boron trifluoride becomes ionized much easier than the acetal function. The relatively greater

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1,1,3,3-Tetraalkoxy Propanes

reactivity of the orthoester function was also confirmed by results obtained during competitive reaction of equimolecular amounts of ethyl ether of orthoformic acid, 1,1,3,3-tetraethoxy propane and vinylethyl ether. The reaction of methyl ether of orthoformic acid with vinyl ethyl ether (ratio 1 : 1) yielded, in addition to 1,1,3,3-trimethoxy-3-ethoxy propane (47%), 1,1,3,3-tetramethoxy propane (10%), the formation of which is explained by the exchange of the alkoxy groups between the forming tetraalkoxy propane and the still unreacted ortho-ester in the presence of boron trifluoride. Further reaction of 1,1,3,3-tetraalkoxy propanes with vinyl ethers in the presence of boron trifluoride etherates (as catalyst) led to the formation of 1,1,3,5,5-pentaalkoxypentanes which can be of interest in the role of intermediate synthesis products. Two tables. There are 11 references, of which 2 are Slavic.

ASSOCIATION: Academy of Medical Sciences USSR, Institute of Pharmacology and Chemotherapy (Institut Farmakologii i Khimioterapii Akademii Meditsinskikh Nauk SSSR)

PRESENTED BY:

SUBMITTED: January 18, 1956

AVAILABLE:
Card 2/2

PROTOPORQUA, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Inst. Pharmacology & Chemotherapy, Acad Med. Sci USSR

PROTOPOPOVA, I.V., Cand Chem Sci--(diss) "Study^{ies} in the field of the function-
~~derivatives~~^{aspects of} derivatives of malondialdehyde." Mos, 1958. 3 pages, schematic draw-
ings (All-Union Sci Res Chem-Pharmaceutical Inst in S. Ordshonibidze), 110 co-
pies (M, 26-13, 106)

PROTOPPOVA, T. V.,

79-1-51/63

AUTHORS: Protopopova, T. V., Skoldinov, A. P.

TITLE: β -Acyloxyacroleins (β -Aksiloksiakroleiny)

PERIODICAL: Zhurnal Obshchey Khimii, 1956, Vol.28, Nr 1, pp.240-243(USSR)

ABSTRACT: β -acyloxyacroleins of the general formula $(\text{AcOCH} = \text{CH}-\text{CH}=\text{O})$ (I) had hitherto not been described. They contain a reactive system of α, β -unsaturated aldehyde and may serve as initial products for interesting syntheses. The authors obtained them by conversion of the sodium salt of malonic dialdehyde (II) with chlorine anhydrides of acids. With the use of chlorine anhydrides of acetic, propionic, n-butyric or benzoic acid the method A gave good results. It consisted of the conversion of the chlorine anhydride with a suspension consisting of the anhydrous sodium salt of malonic dialdehyde in an inert solvent. The initial salt (II) was obtained by saponification of 1,1,3,3-tetraoxypropane in the presence of hydrochloric acid and by subsequent neutralization with caustic soda. The reactions with the chlorine anhydride of p-nitrobenzoic acid take place better according to method B' which

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79-1-51/63

 β -Acyloxyacroleins

consists of the influence of chlorine anhydride upon the aqueous solution of the salt (II). The β -acyloxyacroleins which contain the residue of an aliphatic acid are liquids of a pungent specific odor which are distillable in a vacuum and which show molecular exaltation. But the compounds with an aromatic acyl residue are crystalline bodies. All β -acylacroleins are soluble in the usual organic solvents with the exception of petroleum ether, insoluble in water and aqueous soda solutions, but they are easily saponified by the latter under formation of malonic dialdehyde. They show the typical reactions upon the aldehyde group and easily condense with salts of guanidine under formation of 2-aminopyrimidine. All described properties prove the structure (I) and are incompatible with the structure of acylmalonic dialdehydes $AC\ CH(OH = O)_2$ which might be expected when the acylation process would be accompanied by a transfer of the reaction center. (See tables 1 and 2). There are 2 tables, and 2 references, all of which are Slavic.

Card 2/2

*Inst. Pharmacology + Chemotherapy
Acad Med. Sci USSR*

PROTOPOPOVA, T.V.; SKOLDIKOV, A.P.

$\beta\beta$ -dihalogen propionaldehydes. Zhur.ob.khim. 28 no.10:2805-2808
O 158. (MIRA 11:12)

1. Institut farmakologii i khimioterapii AMN SSSR.
(Propionaldehyde)

5.3600

7294
SOV/63-4-5-22/37

AUTHORS: Protopopova, T. V., Klimko, V. T., Skoldinov, A. P.

TITLE: Brief Communications. Substituted Malondialdehydes
and Some of Their Reactions

PERIODICAL: Khimicheskaya nauka i promyshlennost', 1959, Vol 4,
Nr 6, pp 805-806 (USSR)

ABSTRACT: The preparation and halogenation of 1,3-dichloro-1,3-
-dialkoxypropanes (II) was investigated. Di-
-chloroethers (II) are easily formed from acetals
(I) and thionyl chloride or phosphorus pentachloride.
II with alcohols are converted into I and by action
of CH_3COOK , diacetoxy derivatives (III) are
formed.

~~Send to~~

*Inst. Pharmacology & Chemotherapy,
Acad Medical Sci USSR*

5 (3)
 AUTHORS: Protopopova, T. V., Skoldinov, A. P. SOV/79-29-3-45/61
 TITLE: β -Halogen Acroleins (β -Galoidoakroleiny)
 PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 963-967 (USSR)
 ABSTRACT: Proceeding from the synthesis of β, β -dihalogen propionaldehydes (Refs 1,2) the authors attempted in the work under review to transform these aldehydes (I) into the corresponding β -halogen acroleins $\text{CHX}=\text{CH}-\text{CH}=\text{O}$ (II, where $\text{X} = \text{Cl}$ or Br), which are of great importance for further syntheses (Ref 3). It was found that in treating the compounds (I) with aqueous sodium carbonate solutions the corresponding acrolein (II) is formed. β -Halogen acroleins are colorless liquids, which assume a yellow color on standing and very strongly irritate the mucous membrane of the eyes and nose. When exposed to light they decompose already at room temperature under development of hydrogen halide. They are more stable at low temperatures in the presence of traces of hydroquinone or in the solution of an inert solvent. As was expected, β -halogen acroleins form pyrazole with semicarbazide or hydrazine, 1-arylpyrazoles with arylhydrazines, isoxazole with hydroxyl amine, 2-amino pyrimidine with guanidine, etc. The reactions take place over

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β -Halogen Acroleins

SOV/79-29-3-45/61

intermediate stages, in which the semicarbazones and aryl hydrazones of β -halogen acroleins could be isolated. On the basis of the synthesis of pyrazole the earlier suggested succession of reactions in the synthesis of heterocyclic compounds from the derivatives of β,β -dihalogen propionaldehydes may be considered to be an established fact, in so far as the authors succeeded in separating their semicarbazones and as far as the possibility of their easy transition into the semicarbazones of the β -halogen acroleins could be shown (Refs 1,8) (Scheme). Thus, β -chloro- and β -bromo acrolein in individual state were synthesized and characterized for the first time by the separation of hydrogen halide from the β,β -dihalogen propionaldehydes. The oxidation of β -halogen acroleins with silver oxide leads to the trans- β -halogen acrylic acids. There are 13 references, 7 of which are Soviet.

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β -Halogen Acroleins

SOV/79-29-3-45/61

ASSOCIATION: Institut farmakologii i khimioterapii Akademii meditsinskikh
nauk (Institute of Pharmacology and Chemotherapy of the
Academy of Medical Sciences)

SUBMITTED: January 21, 1958

Card 3/3

SHRAMOVA, Z.I.; PROTOPOPOVA, T.V.; SKOLDINOV, A.P.

Vinyl analogs of mixed anhydrides of carboxylic and carbonic acids.
Zhur. ob. khim. 34 no.10:3511-3512 O '64.

(MIRA 17:11)

1. Institut farmakologii i khimioterapii AMN SSSR.

SHRAMOVA, Z.I.; PROTOPOPOVA, T.V.; SKOLDINOV, A.P.

Derivatives of β -dicarbonyl compounds. Part 4: Vinyl analogs
of mixed anhydrides of carboxylic and carbonic acids. Zhur. ob.
khim. 34 no.11:3652-3654 N '64 (MIRA 18:1)

1. Institut farmakologii i khimioterapii AMN SSSR.

POPOVA, R.Ya.; PROTOPOPOVA, T.V.; VINOKUROV, V.G.; SKOLDINGV, A.P.

Functional derivatives of malodnialdehyde and their reactions. Part
14: Condensation of some allyl halides with vinyl ether. Zhur.ob.khim.
34 no.1:114-119 Ja '64. (MIRA 17:3)

1. Institut farmakologii i khimioterapii AMN SSSR.

KLIMKO, V.T.; PROTOPOPOVA, T.V.; SKOLDINOV, A.P.

Functional derivatives of malondialdehyde and their reactions. Part 13:
Some transformations of β -alkoxyacroleins. New synthesis of β -chloro-
acroleins. Zhur.ob.khim. 34 no.1:109-114 Ja '64. (MIRA 17:3)

1. Institut farmakologii i khimioterapii AMN SSSR.

IVANOV, A.I.; VINOKUROV, V.G.; PROTOPOPOVA, T.V.; SKOLDINOV, A.P.

Synthesis of stereoisomeric β -chlorovinyl carbonyl compounds. Zhur.
ob.khim. 34 no.1:354-355 Ja '64. (MIRA 17:3)

1. Institut farmakologii i khimioterapii AMN SSSR.

KLIMKO, V.T.; PROTOPOPOVA, T.V.; SMIRNOVA, N.V.; SKOL'DINOV, A.P.

Functional derivatives of malonodialdehyde and their reactions.

Part 12: Preparation of β -alkoxyacroleins. Zhur.ob.khim. 32
no.9:2961-2966 S '62. (MIRA 15:9)

1. Institut farmakologii i khimioterapii AMN SSSR.
(Acrolein)

KRITSYN, A.M.; LIKHOSHERSTOV, A.M.; PROTOPOPOVA, T.V.; SKOLDINOV, A.P.

"Ethambutol" and related compounds. Synthesis and stereochemical relations. Dokl. AN SSSR 145 no.2:332-335 J1 '62. (MIRA 15:7)

1. Institut farmakologii i khimioterapii AMN SSSR. Predstavleno akademikom A.N. Nesmeyanovym.
(Ethane) (Butanol)

KALININA, N.N.; KLIMKO, V.T.; PROTOPOPOVA, T.V.; SKOLDINOV, A.P.

Functional derivatives of malondialdehyde and their reactions.
Part 11: Alkyl- β -acroleincarboxylates. Zhur.ob.khim. 32 (MIRA 15:7)
no.7:2146-2151 J1 '62.

1. Institut farmakologii i khimioterapii Akademii meditsinskikh
nauk SSSR.
(Malondialdehyde) (Carboxylic acid) (Acrolein)

AUTHORS: Protopopova, T. V., Skoldinov, A. P. SOV/79-28-10-36/60

TITLE: β,β -Dihalogen Propionic Aldehydes (β,β -Digaloidopropionovyye al'degidy)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 10, pp 2805-2808 (USSR)

ABSTRACT: These aldehydes $\text{CHX}_2\text{CH}_2\text{CHO}$, where X=Cl or Br (Compound I) have not hitherto been obtained in free state (Ref 1). Also the authors did not succeed in synthesizing them by the hydrolysis of the corresponding acetals $\text{CHX}_2\text{CH}_2\text{CH(OR)}_2$, where R=alkyl (III)(Ref 2). As previously reported (Ref 2) the acetals (III) are easily transformed into the corresponding 1,1,3-tri-halogen-3-alkoxy propane $\text{CHX}_2\text{CH}_2\text{CHX' (OR)(IV)}$ by the action of phosphorus pentachloride or thionyl chloride. When these reactive compounds are shaken with water homogeneous aqueous solutions of the aldehydes (I) are obtained, wherefrom the latter are separated; they can then be further distilled in the nitrogen current in a vacuum. The aldehydes (I) may be synthesized

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β,β -Dihalogen Propionic Aldehydes

SOV/79-28-10-36/60

in the same way from the compounds (II), although in smaller yields and a longer period of time being necessary. The aldehydes $\text{CHX}_2\text{CH}_2\text{CHO}$ (I) are liquids of a strong specific smell; they decompose already at room temperature under the formation of hydrogen halide and the formation of solid polymers; the cleavage is slowed down by hydroquinone. The analysis of the β,β -dibromopropionic aldehyde, which is less stable than the chlorine analog was, therefore, difficult to carry out. The compounds (I) show the characteristic reactions to the aldehyde group and form crystalline unstable derivatives that can only be recrystallized in the absence of acids. In the oxidation of (I) ($\text{X}=\text{Cl}$) with concentrated nitric acid the β,β -dichloro propionic acid was obtained. There are 3 references, 1 of which is Soviet.

ASSOCIATION: Institut farmakologii i khimioterapii Akademii meditsinskikh nauk SSSR (Institute of Pharmacology and Chemotherapy of the Academy of Medical Sciences USSR)

Card 2/3

β,β -Dihalogen Propionic Aldehydes

SOV/79-28-10-35/60

SUBMITTED: September 30, 1957

Card 3/3

PROTOPOPOVA, T.V.; SKOLDINOV, A.P.

Acetals of β,β -dihalogen substituted propionaldehyde. Zhur.ob.khim.
28 no.9:2428-2431 S '58. (MIRA 11:11)

1. Institut farmakologii i khimioterapii AMN SSSR.
(Propionaldehyde)

PROTOPOPOVA, T.V.; SKOLDINOV, A.P.

Production and some transformations of 1-alkoxy-1,3,3-trihalide
propanes. Khim. nauka i prom. 3 no.4:536 '58. (MIRA 11:10)

1. Institut farmakologii i khimioterapii AMN SSSR.
(Propane)

KLIMKO, V.T.; PROTOPOPOVA, T.V.; SKOLDINOV, A.P.

Derivatives of β -dicarbonyl compounds. Part 3: Synthesis of 4-substituted pyrazoles. Zhur. ob. khim. 31 no.1:170-175 Ja '61.

1. Institut farmakologii i khimioterapii Akademii meidtsinskikh nauk SSSR.

(Pyrazole)

PROTOPOPOVA, V.A. (Moskva)

Review of letters received in response to the proposal of G.A. Moroz for replacing the orderly at a feldsher-midwife center with a nurse. Fel'd. i akush. 25 no. 7:60-63 Je '60.

(MIRA 13:8)

(NURSES AND NURSING)

PROTOPOPOVA, V.A.

Outpatient registration files (reader's comments). Vol'd. 1
akush. 25 no.5:61-62 My '60. (MIRA 13:7)
(HOSPITALS--OUTPATIENT SERVICES)

PIVEN', P.K., red.; BARYSHNIKOVA, N.I., red.; PROTOPOPOVA, V.M., red.;
IVANOVA, Yu.I., red.; CHEREPANOVA, N.A., red.; KOSTKO, R.P., red.;
PETROVA, O.Ye., red.; SYCHEVA, G.F., red.; CHURIKOVA, A.K., red.;
POZDEYEV, A.P., tekhn.red.

[Economy of Tyumen Province] Narodnoe khoziaistvo Tiimenskoi
oblasti. Omsk, Gos.stat.izd-vo, 1958. 198 p. (MIRA 12:3)

1. Tyumen oblast'. Statisticheskoye upravleniye. 2. Nachal'nik
statisticheskogo upravleniya Tyumenskoy oblasti (for Piven').
(Tyumen Province--Economic conditions)

BELOSTOTSKAYA, Ye.M.; GLUSHKOVA, Ye.K.; GROMBAKH, S.M.; SUKHAREV, A.G.;
TEESHEV, V.A.; TIMOKHINA, Ye.A.; PROTOPOPOVA, V.A.

Hygienic problems in the organization of work of students in agriculture.
Gig. i san. 26 no.6:52-57 Ju '61. (MIRA 15:5)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta gigiyeny imeni
F.F.Erismana Ministerstva zdoravookhraneniya RSFSR i Stavropol'skoy
krayevoy sanitarno-epidemiologicheskoy stantsii.
(CHILDREN IN AGRICULTURE---HYGIENIC ASPECTS)

PUPKO, Ye., inzh.; PROTOPOPOVA, V.N., inzh.; SKOBLIK, M.N., inzh.

Use of electronic computers in calculating the unfolding of links of the
helical chambers of hydraulic machines. Energomashinostroenie 11 no.7:
39-40 J1 '65. (MIRA 18:7)

PROTOPOPOVA, V.P., Cand Biol Sci -- (diss) "Quantitative
determination of manganese in biological substrata."
Mos, 1958, 11 pp (Inst of Hygiene ~~of~~ Labor and Occupational
Diseases of Acad Med Sci USSR) 300 copies (KL, 28-5b, 10h)

- 15 -

PROTOPOPOVA, V.P. (Khar'kov)

Quantitative determination of manganese in biological substances.
Gig. truda i prof. zav. 2 no.4:40-44 J1-Ag '58 (MIRA 11:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut gigiyeny truda i
profzabolevaniy.
(MANGANESE)

SOV/137-59-1-891

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, p 119 (USSR)

AUTHORS: Vasilenko, Yu.V., Makarchenko, A. F., Khizhnyakova, L. N.,
Nerubenko, A. B., Protopopova, V. P.

TITLE: Contribution to the Pathology of Chronic Manganese Poisoning of
Operators of Electrical Welding Apparatus (K klinike khronicheskoy
intoksikatsii margantsem u elektrosvarshchikov)

PERIODICAL: V sb.: Vopr. gigiyeny truda i profzabolevaniy v gornorudn.,
khim. i mashinostroit. prom-sti, Kiyev. Gosmedizdat UkrSSR, 1958,
pp 175-179

ABSTRACT: An account of the results of a study dealing with the effects of Mn on
the health of operators of electrical welding equipment during welding
operations with coated electrodes containing ferromanganese; the
studies were carried out at the Clinic of the Khar'kov Institute on
Labor Sanitation and Occupational Diseases. The nature of diseases
induced by Mn poisoning is examined together with sanitary measures
designed to protect the workers from the toxic effects of the Mn.
V. K.

Card 1/1

PROTOPKOVA, V. P.

Determination of Oxidizability in the Analysis of Air. V.G.Gurevich, E.M. Rudinskaya, and V.P.Protopkova. Zavodskaya Lab. 12, 122-30 (1946).

The oxidizability of air can be used as a criterion of its purity. The oxidizability of air is defined as the no. of mg. of O consumed in the oxidation by KIO_3 in H_2SO_4 soln. of all reducing substances in 1.l of air under standard conditions. An evacuated flask (especially designed for the analysis) is filled with the air sample; the contaminated air is oxidized in the flask by means of KIO_3 in concd. H_2SO_4 . In the absence of reducing agents this mixt. does not decomp. at 195° (only 0.1-0.2% is decomp.). but it oxidizes at this temp. nearly all org. substances, except CH_4 and some heterocyclic compds. of N; the oxidation proceeds nearly completely to CO_2 , without the formation of CO. The quantity of O consumed is detd. by the quantity of I liberated in the presence of reducing agents according to $I_2O_5 = I_2 + 5 O$. The I is detd. colorimetrically by the intensity of the yellow-brown color of its solns. in mixts. with dil. H_2SO_4 and KIO_3 . The I reacts with the oxidizing mixt. with the formation of the green of $I_2O_3 \cdot SO_3$ -type compds. On diln. with water, this compd. decomp. rapidly according to $5I_2O_3 \cdot SO_3 + 8H_2O = 2I_2 + 6HIO_3 + 5H_2SO_4$.

W.R.Henn

KOTOV, M. I.; PROTOPOPOVA, V. V.

Discovery of the Crimean orchid (*Himantoglossum caprinum* (M.B.)
Spreng.) in the Caucasus. Ukr.bot.zhur. 17 no.2:77-82 '60.
(MIRA 13:11)

1. Institut botaniki AN USSR, otdel vysshikh rasteniy.
(Caucasus--Orchids)

KUZNETSOVA, G.A. [Kuznetsova, H.O.]; PROTOPOPOVA, V.V.

Flora and vegetation of Orlov Island in the Black Sea. Ukr. bot.
zhur. 20 no.4:80-85 '63. (MIRA 17:4)

1. Institut botaniki AN UkrSSR, otdel vysshikh rasteniy.

PROTOPOPOVA, V.V.

New data on the taxonomic composition of the genus *Xanthium* L.
in the Ukraine. Ukr. bot. zhur. 21 no.4:78-84 '64.

(MIRA 17:11)

1. Otdel vysshikh rasteniy Instituta botaniki AN UkrSSR.

BARBARICH, A.I.[Barbarych, A.I.], kand. biol. nauk; BRADIS, Ye.M., doktor biol. nauk; VISYULINA, O.D., doktor biol. nauk; VOLODCHENKO, V.S.; DOBROCHAYEVA, D.M., kand. biol. nauk; KARNAUKH, Ye.D.; KATINA, Z.F., kand. biol. nauk; KOTOV, M.I., doktor biol. nauk; KUZNETSOVA, G.O.[Kuznetsova, H.O.], kand. biol. nauk; OLYANITSKOVA, L.G.[Olianits'ka, L.H.]; OMEL'CHUK, T.Ya., kand. biol. nauk; POYARKOVA, O.M.; PROKUDIN, Yu.M., doktor biol. nauk; PROTOPOPOVA, V.V.; SLYUSARENKO, L.N.; SMOLKO, S.S.; KHRZHANOVSKIY, V.G. [Khrzhanovs'kyi, V.H.], doktor biol. nauk; ZEROV, D.K. akademik, otv. red., ONISHCHENKO, L.I., red.

[Key for the identification of plants in the Ukraine] Vyznachnyk roslyn Ukrainy. Vyd.2., vypr. i dop. Kyiv, Urozhai, 1965. 876 p. (MIRA 18:9)

1. Akademiya nauk URSR, Kiev. Instytut botaniky. 2. AN Ukr.SSR (for Zerov). 3. Moskovskaya sel'skokhozyaystvennaya akademiya im. K.A.Timiryazeva (for Khrzhanovskiy).

MIKHAYLOVA, I.I.; PROTOPOPOVA, V.V.. red.; SHAROVA, Ye.A., red.;
KOGAN, V.V., tekhn.red.

[Flax mill and its source of supply] L'nosavod i ego
ayr'evaia baza. Moskva, Gos.nauchno-tekhn.isd-vo M-va
legkoi promyshl.. 1956. 15 p. (MIRA 12:6)

1. Russia (1923- U.S.S.R.) Ministerstvo legkoy promyshlennosti.
Tekhnicheskoye upravleniye. Byuro tekhnicheskoy informatsii.
(Flax)

ACC NR: AM6001043

Monograph

UR/

Protopopov, V. V.

Bioclimate of the dark pine mountain forests in Southern Siberia (Bioklimat
temnokhvoynykh gornyykh lesov YUzhnoy Sibiri) Moscow, Izd-vo "Nauka",
65. 0094 p. illus., biblio. (At head of title: Akademiya nauk SSSR.
Sibirskoye otdeleniye. Institut lesa i drevesiny)

TOPIC TAGS: climatic condition, forestry, hydrology, biologic ecology, climatology/
Western Sayan

PURPOSE AND COVERAGE: This book presents a study made of climatological and
hydrological roles of forests in the mountain region of Western Sayan. Besides the
relationships of these roles to agricultural activities is also given a study of
the interrelationships between forests and water forests and climate in order to
solve a series of forestry problems. Special attention is given to the results of
bioclimatic studies made in mountain cedar-fir woods of Western Sayan on the
influence of forests on rainfall, sun radiation, temperature regimes of air and
soil, and air humidity.

TABLE OF CONTENTS;

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UDC: 551.586

Cara

ACC NR: AM6001043

Forest climate --- 43
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SUB CODE: 02,04/ SUBM DATE: 09Dec64/ ORIG REF: 046/ OTH REF: 003

Card 2/2

SARKITS, V.B.; TRABER, D.G.; PROTOPOPOVA, Ye.A.

Mechanism of heat transfer between the fluidized bed of granular
materials and the wall. Trudy LTI no.54:14-23 '59. (MIRA 13:8)
(Fluidization) (Heat--Transmission)

YEGOROV, T.G., professor; PROTOPOPOVA, Ye.A., redaktor; NIKOLAYEV, B.L.,
tekhnicheskiy redaktor

[Programs of pedagogical schools; psychology] Programmy pedagogiches-
skikh uchilishch; psikhologiya. Moskva, Gos. uchebno-pedagog. izd-vo
Ministerstva prosveshcheniya RSFSR, 1956. 12 p. (MLRA 9:10)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i
srednikh pedagogicheskikh uchebnykh zavedeniy.
(Psychology--Study and teaching)

SHAPIRO, N.I.; KOTLODOVA, Ye.M.

Action of temperature and the frequency of the development of
chromosome mutations in seeds subjected to gamma irradiation.
Radiobiologia 4 no.2:270-271 '64. (MIRA 18:5)

PROTOPOPOVA, Ye.M.; KUBLIK, L.N.

Materials on the removal of radiation aftereffects in plant cells.
Radiobiologia 4 no.6:878-882 '64. (MIRA 13:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

ACCESSION NR: AP4027979

S/0205/64/004/002/0270/0274

AUTHOR: Shapiro, N. I.; Protopopova, Ye. M.

TITLE: Temperature effect on frequency of chromosome mutations in gamma-irradiated seeds

SOURCE: Radiobiologiya, v. 4, no. 2, 1964, 270-274

TOPIC TAGS: temperature effect, gamma-irradiation, gamma-irradiated seeds, preheating (85°C) radioprotective effect, temperature radioprotective action mechanism, beta-alanine, chromosome mutation frequency, oxygen effect, radioprotection coefficient

ABSTRACT: Literature studies have established that heating of barley seeds at 85°C before irradiation reduces the number of chromosome aberrations. The present study investigates the nature of the radioprotective action of heating at 85°C before gamma-irradiation at 10 kr, and the radioprotective effects of beta-alanine and nitrogen during post radiation soaking of heat treated seeds. Two possible explanations for the radioprotective mechanism of heating have been suggested: 1) heating of seeds reduces their oxygen concentration and

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ACCESSION NR: AP4027979

thereby increases their radioresistance, 2) heating changes the properties of cellular membranes making them less permeable for oxygen or making access to oxygen sensitive sites more difficult. Experimental findings disprove both explanations. Beta-alanine does not protect seeds which have been heated before irradiation without additional saturation of the water during postradiation soaking. Seeds heated before irradiation do not demonstrate the radioprotective effect of heating during soaking without additional oxygen. The radioprotection coefficient for heating before irradiation is higher than the radioprotection coefficients for beta-alanine and nitrogen during postradiation soaking of seeds. Increased radioresistance of seeds heated before irradiation as demonstrated by reduced frequency of chromosome aberrations is related to protection from postradiation oxygen effect. Orig. art. has: 5 tables.

ASSOCIATION: None

SUBMITTED: 16Nov63

SUB CODE: LS

NR REF SOV: 005

ENCL: 00

OTHER: 006

Card 2/2

PROTOPOPOVA, Ye.N.

Effect of trace elements on the seed vigor and seedling development of some tree and shrub species. Izv. Sib. otd. AN SSSR no. 7:89-93 '62. (MIRA 17:8)

1. Institut lesa i drevesiny Sibirskogo otdeleniya AN SSSR, Krasnoyarsk.

KATS, B.A., kand.tekhn.nauk; KACHER, Ya.F., inzh.; KUCHMAR, O.G., inzh.;
PROTOPOPOVA, Ye.V., inzh.; BEDNYAKOV, F.N., inzh.

Testing worm shafts of new design for MP-21 presses. Masl. -
zhir. prom. 27 no.8:44-46 Ag '61. (MIRA 14:8)

1. Sredneaziatskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta zhirov (for Kats, Kacher, Kuchmar). 2. Namanganskiy
maslozavod (for Protopopova, Bednyakov).

(Oil industries—Equipment and supplies)

TVERDOVSKIY, G.I., inzhener; PUSHKAREV, T.P., inzhener.; SAVCHENKO, N.Ya.
PROTOPOPOVA, Ye.V., inzhener

Method of processing sunflower seeds at the Namangan Oil Mill.
Mas.-zhir.prom. 20 no.4:30-31 '55. (MLRA 8:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Tverdovskiy). 2. Namanganskiy maslozavod (for Pushkarev, Savchenko, Protopopova)
(Namangan--Sunflower seed oil)

PROTOSAVITSKAYA, Ye.A., inzh.

Construction and anticorrosion treatment of reinforced concrete
apparatus in the cellulose and paper industry. Mont.i spets.
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SOV/120-59-3-30/46

AUTHORS: Veprik, Ya. M., Protsanova, S. P. and Payerman, G. P.

TITLE: Minimum Ionization Particle Tracks Obtained by the
Physical Development Method (Polucheniye izobrazheniya
sledov chastits s minimal'noy ionizatsiyey metodom
fizicheskogo proyavleniya)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3,
pp 128-129 + 1 plate (USSR)

ABSTRACT: The authors have attempted to use the n-oxyphenyl
glycin physical developer to detect minimum ionization
tracks in NIKFI-R nuclear emulsions. It was found that
this method may be used to improve the energy discrimina-
tion between minimum ionization particles and to reduce
the γ -ray background. The method has been used with
15 and 200 Mev protons and 300 Mev π^+ mesons in
NIKFI-R emulsions 200 μ thick. The films were first
immersed in distilled water for 15-20 min at 10°C
(all the other stages were also carried out at this
temperature). The films were then placed in the
following chemical developer for a short time:
Water (50°C) - 750 ml,
 Na_2SO_3 (anhydrous) - 12.5 g,

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Minimum Ionization Particle Tracks Obtained by the Physical Development Method

K_2CO_3 - 25.0 g
 n-oxyphenyl glycin - 5.0 g
 cold water - up to 1 l.

This developer was activated by the addition of 0.1 g/l of "phenidon". The films were then placed in a stop-bath (0.5% CH_3COOH solution) and subsequently carefully washed and fixed in the following fixer:

Na_2CO_3 (anhydrous) - 1 g,
 Na_2SO_3 (anhydrous) - 5 g,
 $Na_2S_2O_3 \cdot 5H_2O$ - 300 g,
 Water - 700 ml.

The films were fixed for 70 min and then washed again. They were then developed in physical n-oxyphenyl glycin developer for 20 min. Subsequently they were washed again and dried in water alcohol solutions until they assumed their original dimensions. Fig 1 shows a comparison of the result of chemical (a) and physical (b) development of 200 μ nuclear emulsions irradiated with

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Minimum Ionization Particle Tracks Obtained by the Physical
Development Method

π^+ mesons at 300 Mev. Fig 2 shows a comparison between the chemical (a) and physical (b) development of 200 μ emulsions irradiated with neutrons from a Po-Be source with a gamma background. There are 2 figures and 10 references, 7 of which are Soviet, 1 English, 2 French.

ASSOCIATIONS: Leningradskiy institut kinoizhenerov
(Leningrad Institute for Cinematographic Engineers; and
Ob"yedinennyy institut yadernykh issledovaniy
(Joint Institute for Nuclear Studies)

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